

MATHEMATICS, MAJOR

Western Sydney University Major Code: 0059

Previous Code: M3054.1

Available to students in other Western Sydney University

Programs: Yes. Check that your program has the available credit points required to complete the subjects in this field of study. Any requisite requirements must also be met. Consult your Program Advisor for further advice.

This major covers topics in the traditional areas of calculus and algebra. Single and multivariable calculus are covered, as well as topics in linear algebra, analysis and mathematical modelling. This major is available to all undergraduate students and may meet the NSW Institute of Teachers accreditation requirements for teaching Mathematics as a first subject in NSW state high schools.

Location

Campus	Mode	Advice
Campbelltown Campus	Internal	bict@westernsydney.edu.au
Parramatta Campus - Victoria Road	Internal	bict@westernsydney.edu.au

Major Structure

Students must complete eight subjects as follows

Subject	Title	Credit Points
Level 1		
MATH 1006	Discrete Mathematics	10
MATH 1014	Mathematics 1A	10
MATH 1015	Mathematics 1B	10
Level 2		
Choose two subjects from the Level 2 subjects below		20
MATH 2001	Advanced Calculus	
MATH 2003	Differential Equations	
MATH 2010	Linear Algebra	
Level 3		
MATH 3001	Abstract Algebra	10
MATH 3003	Analysis	10
MATH 3006	Mathematical Modelling	10
Total Credit Points		80

Related Programs

Bachelor of Arts (Pathway to Teaching Secondary) (<https://hbook.westernsydney.edu.au/programs/bachelor-arts-pathway-teaching-secondary/>)

Bachelor of Arts (Pathway to Teaching Secondary) Dean's Scholars (<https://hbook.westernsydney.edu.au/programs/bachelor-arts-pathway-teaching-secondary-deans-scholars/>)

Bachelor of Information and Communications Technology (<https://hbook.westernsydney.edu.au/programs/bachelor-information-communications-technology/>)

Bachelor of Information and Communications Technology (Advanced) (<https://hbook.westernsydney.edu.au/programs/bachelor-information-communications-technology-advanced/>)

Bachelor of Information Systems (<https://hbook.westernsydney.edu.au/programs/bachelor-information-systems/>)

Bachelor of Information Systems Advanced (<https://hbook.westernsydney.edu.au/programs/bachelor-information-systems-advanced/>)

Diploma in Arts/Bachelor of Arts (Pathway to Teaching Secondary) (<https://hbook.westernsydney.edu.au/programs/diploma-arts-bachelor-arts-pathway-teaching-secondary/>)

Diploma/Bachelor of Information and Communications Technology (<https://hbook.westernsydney.edu.au/programs/diploma-bachelor-information-communications-technology/>)

Diploma in Information and Communications Technology / Bachelor of Information Systems (<https://hbook.westernsydney.edu.au/programs/diploma-information-communications-technology-bachelor-information-systems/>)